

Begin

REEL #801

Zenyuk, Ye.

Country : USSR  
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., No 22, 1958, No 100325

Author : Zenyuk, Yo.

Inst :       

Title : Alfalfa-Clover Blends.

Orig Pub: S. kh. Kirgizii, 1957, No 8, 9-12

Abstract: Substitution of a part of alfalfa seeds with clover seeds when sowing, makes it possible to increase appreciably on the irrigated lands of Kirghizia the yields of the hay of the grasses and their agro-technical effect in crop rotation. In the first mowings of the blends, clover

Card : 1/3

Country : USSR  
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., No 22, 1958, No 100325

predominates (or comprises a part of considerable amounts); in the subsequent mowings - alfalfa predominates. Alfalfa, somewhat inhibited by clover in the first mowing, reaches the same growth and vigor as in pure sowings to the extent of the decline of the clover. The best proportion of alfalfa and clover seeds is from 3:1 to 1:1. The sowing rate is 14-16 kilograms/ha. Variations in the proportion of the seeds are hardly reflected in the yield, but alfalfa is a more valuable component. The hay yields according to the years of life of the grasses comprised

Card : 2/3

M-80

Country : USSR  
Category: Cultivated Plants. Fodders.

M

APPROVED FOR RELEASE: 09/19/2001  
Abs Jour: RZhBiol., No 22, 1958, No 100325

CIA-RDP86-00513R001964510001-

(in centners/ha): Alfalfa, II-151.0; III-144.8; IV-142.8; V-109.0; Alfalfa-clover blend, II - 179.7; III - 115.7, IV - 137.6, V - 98.3. The yield of wheat on the alfalfa-clover bed comprised 106.9% in relation to the yield on the alfalfa bed. -- N.I. Grib

Card : 3/3

L 18791-63

EWT(d)/EWT(1)/EWP(q)/EWT(m)/BDS

AFFTC/ASD JD/HW

ACCESSION NR: AP3007043

S/0147/63/000/003/0057/0069

AUTHOR: Zenukov, A. G.

TITLE: Calculating method and results of experimental investigation of air-cooled turbine blades<sup>14</sup>

SOURCE: <sup>18</sup>IVUZ. Aviatsionnaya tekhnika, no. 3, 1963, 57-69

TOPIC TAGS: air cooled turbine blade, turbine blade, turbine blade cooling, blade shell, blade cooling, blade core, temperature distribution, temperature field, heat transfer, cooling efficiency, turbine

ABSTRACT: A method for calculating the temperature in a turbine blade based on the use of a simplified representation of heat-transfer processes is presented. The blade is divided into four zones (see Fig. 1 of the Enclosure). It is assumed that the gas temperature in each zone is constant and that a mean heat-transfer coefficient may be used. Typical temperature profiles along the height of blade elements are shown in Fig. 2. Temperature

Card 1<sup>13</sup>

L 18791-63

ACCESSION NR: AP3007043

differences not exceeding 100K occurred in the temperature field of the blade core. The transverse temperature distribution in the blade at various gas temperatures (Fig. 3) shows that the highest temperature difference is 200K at gas temperature  $t_g = 1313K$  and the smallest is 100K at  $t_g = 873K$ . These temperature gradients are attributed to cooling of the leading edge. The temperature difference in the transverse profile was found to be affected by the initial cooling-air temperature ( $t_a$ ). An increase of  $t_a$  to 500K lowers the maximum difference to 150K. Special tests were made to evaluate the cooling efficiency of a given blade design at constant cooling-air flow rate and with  $t_g$  changing from 800 to 1300K. The variation of efficiency calculated as a function of temperature for the air-to-gas-flow ratio  $G_a/G_g = 1.6$  is shown in Fig. 4. It is concluded that 1) the proposed method is sufficiently simple for engineering calculations; 2) the longitudinal temperature profile of a hollow blade with a dual cooling loop is uniform; 3) the transverse temperature profile of the investigated blade is not uniform and its design must be improved; and 4) the

Card 2/03



L 18791-63

ACCESSION NR: AP3007043

cooling efficiency for the blade design investigated is satisfactory.  
Orig. art. has: 12 figures and 36 formulas.

ASSOCIATION: none

SUBMITTED: 23Mar63

DATE ACQ: 07Oct63

ENCL: 02

SUB CODE: PR

NO REF SOV: 006

OTHER: 001

Card 3/03

RASPOPOV, I.V.; LUKASHOV, G.G.; PLISKANOVSKIY, S.T.; ARTYUKHOV, B.N.;  
TARASOV, D.A.; ARIKHBAEV, V.V.; Prinsipali uchastiye: ZENYUKOV,  
V.P.; NEMTSOV, N.S.; GODLEVSKIY, A.I.; LEVCHENKO, G.F.;  
DEGTYAREVA, Z.I.; GORLACH, A.A.; YAKUSHECHKIN, Ye.I.

Intensifying the sintering process by air preheating and by  
improving the performance of exhaust fans. Stal' 23 no.8:  
679-682 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy  
zavod "Azovstal'."

(Sintering)



ZENZIN, V.N.

137-58-5-9681

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 116 (USSR)

AUTHORS: Zenzin, V.N., Petrov, G.L., Bruk, B.I.

TITLE: The Latest Achievements of the Scientific Research Organizations of Leningrad in the Welding of Alloy Steels (Noveyshiye dostizheniya nauchno-issledovatel'skikh organizatsiy Leningrada v oblasti svarki legirovannykh staley)

PERIODICAL: V sb.: Svarochnoye proiz-vo. Leningrad, Lenizdat, 1957, pp 38-55

ABSTRACT: The results of investigations in the field of the welding of alloy steels; related to problems of the chemical inhomogeneity of welded joints, determination of a rational composition of austenitic heat-resistant facing metal, and study of the zone of fusion of welds of different steels, are presented. Radioactive isotope and metallographic methods of analysis were employed in the investigations.

B.V.

1. Alloy steels--Welding
2. Welded joints--Chemical properties
3. Welds--Properties

Card 1/1

GAVRILOV, A.K., kand.tekhn.nauk; ZENZIN, Yu.A., inzh.

Studying elements of the air conduit of the D-37M engine using  
integrators based on electrohydrodynamic analogy. Trakt. i  
sel'khoz mash. no.2:7-9 F '65. (MIRA 18:4)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V.Kuybysheva.

ZENZIN, Yu.A.

Using the method of electromechanical analogy in correcting the  
parameters of cylinder ribbing of an air-cooled engine. Avt.prom.  
31 no.4:22-24 Ap '65. (MIRA 18:5)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V.Kuybysheva.

ZENZIN, Yu.A.; BOBROV, V.P.; GAVRILOV, A.K.; CHIRIK, P.I.; KATOL'NIK, V.M.

Stand for controlling the aerodynamic resistance of cylinders  
and heads of air-cooled engines. Trakt. i sel'khoz mash. no.8:  
14-15 Ag. '65. (MIRA 18:10)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V. Kuybysheva  
i Vladimirskiy traktorny zavod im. A.A. Zhdanova.

I. 07863-67 EWT(d)/EWT(l)/EWP(m)/EWT(m)/EWP(f)/EWP(c)/EWP(v)/EWP(k)/EWP(l) TOP(C)  
 ACC NR: AP6011246 FDN SOURCE CODE: UR/0413/66/000/006/0090/0090

AUTHORS: Zensin, Yu. A.; Bobrov, V. P.; Gavrilov, A. K.; Chirik, P. I.; Katol'nik, V. M.

ORG: none

TITLE: An aerodynamic chamber for inspecting the cylinders and heads of internal combustion engines by their aerodynamic resistance. Class 42, No. 179965

SOURCE: Izobreteniya, promyshlennyye obrastay, tovarnyye znaki, no. 6, 1966, 90

TOPIC TAGS: aerodynamic test, aerodynamics, internal combustion engine, high pressure chamber

ABSTRACT: This Author Certificate presents an aerodynamic chamber for inspecting the cylinders and heads of internal combustion engines by their aerodynamic resistance. The chamber is connected to a measuring pipe which contains a throttle provided with a device for holding the inspected object and with a U-shaped liquid manometer. The latter records the pressure at the entrance to the measuring pipe, this pressure being indicative of the aerodynamic resistance offered by the inspected object. To provide a means for marking the object being inspected, the device contains a marking equipment with several scribes capable of producing a symbol corresponding to a given aerodynamic resistance. The liquid manometer of the pipe is provided along its

Card 1/2

UDC: 620.533.607

L-07863-67

ACC NR: AP6011246

height with photoresistors responding to the movement of the liquid level. The number of these photoresistors is equal to the number of scribes, and each resistor is electrically connected with one of the markers. To check the pressure in the chamber, a single photoresistor may be placed on the liquid manometer of the chamber and may be electrically connected to the marking device.

SUB CODE: 2013/

SUBM DATE: 04 May 64

Card 2/2 bo



ZENZINOV, B.

The Soviet Arctic (Russian Review, Spring 1944, p.65-73).

Brief description of some features of Soviet economic developments of USSR's Arctic regions. Some data on growth of sea and air transport during the 1930's.

DLC: DKL.R82

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZENZINOV, B.

The Soviet Arctic. (Russian Review, Spring 1944, p. 65-73).

Brief description of some features of Soviet economic developments of USSR's arctic regions. Some data on growth of sea and air transport during the 1930's

DLC; DK1.R62

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZENZINOV, B.

The soviet Arctic. (Russian Review, Spring 1944, p. 65-73).

Brief description of some features of Soviet economic developments of USSR's Arctic regions. Some data on growth of sea and air transport during the 1930's.

DLC: DK1.R82

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

ZENZINOV, G.S.

Diagnosis of infarcts of the interventricular septum. Ter. arkh.,  
Moskva 25 no. 1:44-55 Jan-Feb 1953. (GIML 24:1)

1. Of the Hospital Therapeutic Clinic (Head -- Prof. M. E. Mandel'shtam), Leningrad Pediatric Medical Institute.

AL'BREKHT, V.G., doktor tekhn.nauk, prof.; ZENZINOV, N.A., inzh.

Characteristics of a track during the initial period of its  
stabilization. Transp. stroi. 14 no.8:10-12 Ag '64.

(MIRA 18:1)

ZENZINOV, N.A., ing., prof.

Machines pulled by tractors for laying rails. Rev cailor fer 11  
no.4:223-225 Ap '63.

1. M.I.I.T., Moscova.



ZENZINOV, N.A. mernok (Moszkva)

Soviet-made tractor for track laying. Vasut 13 no.4:  
24-25 Ap '63.

ERDELY, Imre; HAJNAL, Lajos; FERENCZY, Pal, fomernok; TAMAS, Ferenc,  
dr.; SVEHLA, Gyula, dr.; TRAGER, Tamas; BERNOLAK, Bela;  
ZEOLD, Istvan; KAKASY, Gyula; SAJO, Istvan, dr.

Society life. Epitoanyag 16 no. 2:66 F '64. Epitoanyag 16  
no. 2:66 F '64.

1. "Epitoanyag" szerkeszto bizottsagi tagja (for Erdely and Tamas).

ZEOLINSKA, Z.

"The garden of Tatra Mountain Plants in Zakopane."

p. 3 (Chronmy Przyrode Ojczysta) Vol. 14, No. 3, May/June, 1958. Krakow, Poland.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8 No. 1, Jan. 1959.

ZEORAL, M. ; RUDINGER, J.; SORM, F.

"Amino Acids and Peptides. VIII. Peptides of -Diaminobutyric Acid." p. 530.  
(COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK CHEKOSLOVATSKIKH  
KHMICHESKIKH RABOT. Vol. 18, no. 4, Aug. 1953; Praha, Czech.)

So: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 4,  
April 1955, Uncl..

ZIOLKOWSKI, Stanislaw, inz.; ZEP, Ireneusz, mgr inz.

Attempts of using shaped foundry coke for the melting of copper alloys. Przegl odlew 12 no.11:358-359 N '62.

1. ZEPALOV, S.M.
2. USSR (600)
4. Afforestation - Kamyshin District
7. 50 years of afforestation in Kamyshin District, Les.khoz. 6 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953. Unclassified.



1. ZEPALOV, S. M.
  2. USSR (600)
  4. Kamyshin District - Afforestation
  7. 50 years of afforestation in Kamyshin District, Les. khaz., 6, no. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

**Synthesis of [photographic] developers.** I. P. Hydroxyphenylglycine. I. V. KULIKOV and L. A. ZEPALOVA-MIKHAILOVA (J. Gen. Chem. Res., 1932, 2, 730-732).—The optimum conditions for the production of this compound (48% yield) from p-C<sub>6</sub>H<sub>4</sub>(NH<sub>2</sub>)-OH and CH<sub>3</sub>-CO<sub>2</sub>Na (I) (A. 1884, 1144) are a 10% excess of (I) in aqueous solution at 75–90°. Small amounts of a more sol. by-product, m.p. 186°, which is also a developer, are produced. G. A. R. K.

10

la

PROCESSED AND PROPOSED INDEX

Benzonitrile. M. S. Rozdestvenskii and L. A. Zepa-  
lova-Mikhailova. *J. Applied Chem. (U. S. S. R.)* 6:  
274-7 (1933).—PhCN was prep'd. as follows: (I) Prep'n.  
of the complex salt. To 275 g. of com.  $\text{CuSO}_4$  (98.5-  
99%) in 200 cc.  $\text{H}_2\text{O}$  (70-80°) is added in a no. of batches  
280 g. of KCN (100% prep'n.) in 400 cc.  $\text{H}_2\text{O}$ , 180 g. of  
24%  $\text{NH}_3$  having been previously added to the KCN  
soln. The ppt., which is formed in the course of the  
reaction finally redissolves. (II) Diazotization. Aniline  
(180 g.) is gradually added under const. agitation to  $\text{KNO}_2$   
(400 g.) of  $\text{HCl}$  (d. 1.140) with cooling, the aniline  
gradually dissolving. The agitation is continued until a  
temp. of 20-5° is reached, when a ppt. of aniline- $\text{HCl}$   
appears. The agitation is still continued and ice is added  
to the substance and the temp. brought down to 2° to 0°  
and finally to -18° to -20°. One hundred and thirty-  
eight g. of  $\text{NaNO}_2$  in 80 g.  $\text{H}_2\text{O}$  and 140 g. ice are added,  
and the temp. is raised to 2°; this is followed by the addn.  
of 115 g. of  $\text{HCl}$ . (III) Strain distn. of the PhCN  
formed. (IV) Purifying. Washing with a  $\text{HCl}$  soln.  
of  $\text{SnCl}_4$  with a preliminary addn. of ether to the PhCN  
to facilitate the sep'n. of the latter from the wash water.  
The ether soln. is washed a few times with 2 N  $\text{NaOH}$   
and with water till neutral, dried with  $\text{CaCl}_2$  and distd.  
in vacuo after disg. off the ether. The air passed through  
the substance is dried with  $\text{CaCl}_2$  and  $\text{P}_2\text{O}_5$ . The yield is  
71% of a product of which 81% b. 190°, d<sub>4</sub> 1.0004,  
n<sub>D</sub> 1.00485. These const. are in agreement with those  
of Perquin. The appended literature index contains 32  
references.  
A. A. Boettling

ASR-3LA DETAILUNGKAL LITERATURE CLASSIFICATION

GROUP 1A

GROUP 1B

GROUP 1C

GROUP 1D

GROUP 1E

GROUP 1F

GROUP 1G

GROUP 1H

GROUP 1I

GROUP 1J

GROUP 1K

GROUP 1L

GROUP 1M

GROUP 1N

GROUP 1O

GROUP 1P

GROUP 1Q

GROUP 1R

GROUP 1S

GROUP 1T

GROUP 1U

GROUP 1V

GROUP 1W

GROUP 1X

GROUP 1Y

GROUP 1Z

GROUP 1AA

GROUP 1AB

GROUP 1AC

GROUP 1AD

GROUP 1AE

GROUP 1AF

GROUP 1AG

GROUP 1AH

GROUP 1AI

GROUP 1AJ

GROUP 1AK

GROUP 1AL

GROUP 1AM

GROUP 1AN

GROUP 1AO

GROUP 1AP

GROUP 1AQ

GROUP 1AR

GROUP 1AS

GROUP 1AT

GROUP 1AU

GROUP 1AV

GROUP 1AW

GROUP 1AX

GROUP 1AY

GROUP 1AZ

GROUP 1BA

GROUP 1BB

GROUP 1BC

GROUP 1BD

GROUP 1BE

GROUP 1BF

GROUP 1BG

GROUP 1BH

GROUP 1BI

GROUP 1BJ

GROUP 1BK

GROUP 1BL

GROUP 1BM

GROUP 1BN

GROUP 1BO

GROUP 1BP

GROUP 1BQ

GROUP 1BR

GROUP 1BS

GROUP 1BT

GROUP 1BU

GROUP 1BV

GROUP 1BW

GROUP 1BX

GROUP 1BY

GROUP 1BZ

GROUP 1CA

GROUP 1CB

GROUP 1CC

GROUP 1CD

GROUP 1CE

GROUP 1CF

GROUP 1CG

GROUP 1CH

GROUP 1CI

GROUP 1CJ

GROUP 1CK

GROUP 1CL

GROUP 1CM

GROUP 1CN

GROUP 1CO

GROUP 1CP

GROUP 1CQ

GROUP 1CR

GROUP 1CS

GROUP 1CT

GROUP 1CU

GROUP 1CV

GROUP 1CW

GROUP 1CX

GROUP 1CY

GROUP 1CZ

GROUP 1DA

GROUP 1DB

GROUP 1DC

GROUP 1DD

GROUP 1DE

GROUP 1DF

GROUP 1DG

GROUP 1DH

GROUP 1DI

GROUP 1DJ

GROUP 1DK

GROUP 1DL

GROUP 1DM

GROUP 1DN

GROUP 1DO

GROUP 1DP

GROUP 1DQ

GROUP 1DR

GROUP 1DS

GROUP 1DT

GROUP 1DU

GROUP 1DV

GROUP 1DW

GROUP 1DX

GROUP 1DY

GROUP 1DZ

GROUP 1EA

GROUP 1EB

GROUP 1EC

GROUP 1ED

GROUP 1EE

GROUP 1EF

GROUP 1EG

GROUP 1EH

GROUP 1EI

GROUP 1EJ

GROUP 1EK

GROUP 1EL

GROUP 1EM

GROUP 1EN

GROUP 1EO

GROUP 1EP

GROUP 1EQ

GROUP 1ER

GROUP 1ES

GROUP 1ET

GROUP 1EU

GROUP 1EV

GROUP 1EW

GROUP 1EX

GROUP 1EY

GROUP 1EZ

GROUP 1FA

GROUP 1FB

GROUP 1FC

GROUP 1FD

GROUP 1FE

GROUP 1FF

GROUP 1FG

GROUP 1FH

GROUP 1FI

GROUP 1FJ

GROUP 1FK

GROUP 1FL

GROUP 1FM

GROUP 1FN

GROUP 1FO

GROUP 1FP

GROUP 1FQ

GROUP 1FR

GROUP 1FS

GROUP 1FT

GROUP 1FU

GROUP 1FV

GROUP 1FW

GROUP 1FX

GROUP 1FY

GROUP 1FZ

GROUP 1GA

GROUP 1GB

GROUP 1GC

GROUP 1GD

GROUP 1GE

GROUP 1GF

GROUP 1GG

GROUP 1GH

GROUP 1GI

GROUP 1GJ

GROUP 1GK

GROUP 1GL

GROUP 1GM

GROUP 1GN

GROUP 1GO

GROUP 1GP

GROUP 1GQ

GROUP 1GR

GROUP 1GS

GROUP 1GT

GROUP 1GU

GROUP 1GV

GROUP 1GW

GROUP 1GX

GROUP 1GY

GROUP 1GZ

GROUP 1HA

GROUP 1HB

GROUP 1HC

GROUP 1HD

GROUP 1HE

GROUP 1HF

GROUP 1HG

GROUP 1HH

GROUP 1HI

GROUP 1HJ

GROUP 1HK

GROUP 1HL

GROUP 1HM

GROUP 1HN

GROUP 1HO

GROUP 1HP

GROUP 1HQ

GROUP 1HR

GROUP 1HS

GROUP 1HT

GROUP 1HU

GROUP 1HV

GROUP 1HW

GROUP 1HX

GROUP 1HY

GROUP 1HZ

GROUP 1IA

GROUP 1IB

GROUP 1IC

GROUP 1ID

GROUP 1IE

GROUP 1IF

GROUP 1IG

GROUP 1IH

GROUP 1II

GROUP 1IJ

GROUP 1IK

GROUP 1IL

GROUP 1IM

GROUP 1IN

GROUP 1IO

GROUP 1IP

GROUP 1IQ

GROUP 1IR

GROUP 1IS

GROUP 1IT

GROUP 1IU

GROUP 1IV

GROUP 1IW

GROUP 1IX

GROUP 1IY

GROUP 1IZ

GROUP 1JA

GROUP 1JB

GROUP 1JC

GROUP 1JD

GROUP 1JE

GROUP 1JF

GROUP 1JG

GROUP 1JH

GROUP 1JI

GROUP 1JJ

GROUP 1JK

GROUP 1JL

GROUP 1JM

GROUP 1JN

GROUP 1JO

GROUP 1JP

GROUP 1JQ

GROUP 1JR

GROUP 1JS

GROUP 1JT

GROUP 1JU

GROUP 1JV

GROUP 1JW

GROUP 1JX

GROUP 1JY

GROUP 1JZ

GROUP 1KA

GROUP 1KB

GROUP 1KC

GROUP 1KD

GROUP 1KE

GROUP 1KF

GROUP 1KG

GROUP 1KH

GROUP 1KI

GROUP 1KJ

GROUP 1KK

GROUP 1KL

GROUP 1KM

GROUP 1KN

GROUP 1KO

GROUP 1KP

GROUP 1KQ

GROUP 1KR

GROUP 1KS

GROUP 1KT

GROUP 1KU

GROUP 1KV

GROUP 1KW

GROUP 1KX

GROUP 1KY

GROUP 1KZ

GROUP 1LA

GROUP 1LB

GROUP 1LC

GROUP 1LD

GROUP 1LE

GROUP 1LF

GROUP 1LG

GROUP 1LH

GROUP 1LI

GROUP 1LJ

GROUP 1LK

GROUP 1LL

GROUP 1LM

GROUP 1LN

GROUP 1LO

GROUP 1LP

GROUP 1LQ

GROUP 1LR

GROUP 1LS

GROUP 1LT

GROUP 1LU

GROUP 1LV

GROUP 1LW

GROUP 1LX

GROUP 1LY

GROUP 1LZ

GROUP 1MA

GROUP 1MB

GROUP 1MC

GROUP 1MD

GROUP 1ME

GROUP 1MF

GROUP 1MG

GROUP 1MH

GROUP 1MI

GROUP 1MJ

GROUP 1MK

GROUP 1ML

GROUP 1MM

GROUP 1MN

GROUP 1MO

GROUP 1MP

GROUP 1MQ

GROUP 1MR

GROUP 1MS

GROUP 1MT

GROUP 1MU

GROUP 1MV

GROUP 1MW

GROUP 1MX

GROUP 1MY

GROUP 1MZ

GROUP 1NA

GROUP 1NB

GROUP 1NC

GROUP 1ND

GROUP 1NE

GROUP 1NF

GROUP 1NG

GROUP 1NH

GROUP 1NI

GROUP 1NJ

GROUP 1NK

GROUP 1NL

GROUP 1NM

GROUP 1NN

GROUP 1NO

GROUP 1NP

GROUP 1NQ

GROUP 1NR

GROUP 1NS

GROUP 1NT

GROUP 1NU

GROUP 1NV

GROUP 1NW

GROUP 1NX

GROUP 1NY

GROUP 1NZ

GROUP 1OA

GROUP 1OB

GROUP 1OC

GROUP 1OD

GROUP 1OE

GROUP 1OF

GROUP 1OG

GROUP 1OH

GROUP 1OI

GROUP 1OJ

GROUP 1OK

GROUP 1OL

GROUP 1OM

GROUP 1ON

GROUP 1OO

GROUP 1OP

GROUP 1OQ

GROUP 1OR

GROUP 1OS

GROUP 1OT

GROUP 1OU

GROUP 1OV

GROUP 1OW

GROUP 1OX

GROUP 1OY

GROUP 1OZ

GROUP 1PA

GROUP 1PB

GROUP 1PC

GROUP 1PD

GROUP 1PE

GROUP 1PF

GROUP 1PG

GROUP 1PH

GROUP 1PI

GROUP 1PJ

GROUP 1PK

GROUP 1PL

GROUP 1PM

GROUP 1PN

GROUP 1PO

GROUP 1PP

GROUP 1PQ

GROUP 1PR

GROUP 1PS

GROUP 1PT

GROUP 1PU

GROUP 1PV

GROUP 1PW

GROUP 1PX

GROUP 1PY

GROUP 1PZ

GROUP 1QA

GROUP 1QB

GROUP 1QC

GROUP 1QD

GROUP 1QE

GROUP 1QF

GROUP 1QG

GROUP 1QH

GROUP 1QI

GROUP 1QJ

GROUP 1QK

GROUP 1QL

GROUP 1QM

GROUP 1QN

GROUP 1QO

GROUP 1QP

GROUP 1QQ

GROUP 1QR

GROUP 1QS

GROUP 1QT

GROUP 1QU

GROUP 1QV

GROUP 1QW

GROUP 1QX

GROUP 1QY

GROUP 1QZ

GROUP 1RA

GROUP 1RB

GROUP 1RC

GROUP 1RD

GROUP 1RE

GROUP 1RF

GROUP 1RG

GROUP 1RH

GROUP 1RI

GROUP 1RJ

GROUP 1RK

GROUP 1RL

GROUP 1RM

GROUP 1RN

GROUP 1RO

GROUP 1RP

GROUP 1RQ

GROUP 1RR

GROUP 1RS

GROUP 1RT

GROUP 1RU

GROUP 1RV

GROUP 1RW

GROUP 1RX

GROUP 1RY

GROUP 1RZ

GROUP 1SA

GROUP 1SB

GROUP 1SC

GROUP 1SD

GROUP 1SE

GROUP 1SF

GROUP 1SG

GROUP 1SH

GROUP 1SI

GROUP 1SJ

GROUP 1SK

GROUP 1SL

GROUP 1SM

GROUP 1SN

GROUP 1SO

GROUP 1SP

GROUP 1SQ

GROUP 1SR

GROUP 1SS

GROUP 1ST

GROUP 1SU

GROUP 1SV

GROUP 1SW

GROUP 1SX

GROUP 1SY

GROUP 1SZ

GROUP 1TA

GROUP 1TB

GROUP 1TC

GROUP 1TD

GROUP 1TE

GROUP 1TF

GROUP 1TG

GROUP 1TH

GROUP 1TI

GROUP 1TJ

GROUP 1TK

GROUP 1TL

GROUP 1TM

GROUP 1TN

GROUP 1TO

GROUP 1TP

GROUP 1TQ

GROUP 1TR

GROUP 1TS

GROUP 1TT

GROUP 1TU

GROUP 1TV

GROUP 1TW

GROUP 1TX

GROUP 1TY

GROUP 1TZ

GROUP 1UA

GROUP 1UB

GROUP 1UC

GROUP 1UD

GROUP 1UE

GROUP 1UF

GROUP 1UG

GROUP 1UH

GROUP 1UI

GROUP 1UJ

GROUP 1UK

GROUP 1UL

GROUP 1UM

GROUP 1UN

GROUP 1UO

GROUP 1UP

GROUP 1UQ

GROUP 1UR

GROUP 1US

GROUP 1UT

GROUP 1UU

GROUP 1UV

GROUP 1UW

GROUP 1UX

GROUP 1UY

GROUP 1UZ

GROUP 1VA

GROUP 1VB

GROUP 1VC

GROUP 1VD

GROUP 1VE

GROUP 1VF

GROUP 1VG

GROUP 1VH

GROUP 1VI

GROUP 1VJ

GROUP 1VK

GROUP 1VL

GROUP 1VM

GROUP 1VN

GROUP 1VO

GROUP 1VP

GROUP 1VQ

GROUP 1VR

GROUP 1VS

GROUP 1VT

GROUP 1VU

GROUP 1VV

GROUP 1VW

GROUP 1VX

GROUP 1VY

GROUP 1VZ

GROUP 1WA

GROUP 1WB

GROUP 1WC

GROUP 1WD

GROUP 1WE

GROUP 1WF

GROUP 1WG

GROUP 1WH

GROUP 1WI

GROUP 1WJ

GROUP 1WK

GROUP 1WL

GROUP 1WM

GROUP 1WN

GROUP 1WO

GROUP 1WP

GROUP 1WQ

GROUP 1WR

GROUP 1WS

GROUP 1WT

GROUP 1WU

GROUP 1WV

GROUP 1WW

GROUP 1WX

GROUP 1WY

GROUP 1WZ

GROUP 1XA

GROUP 1XB

GROUP 1XC

GROUP 1XD

GROUP 1XE

GROUP 1XF

GROUP 1XG

GROUP 1XH

GROUP 1XI

GROUP 1XJ

GROUP 1XK

GROUP 1XL

GROUP 1XM

GROUP 1XN

GROUP 1XO

GROUP 1XP

GROUP 1XQ

GROUP 1XR

GROUP 1XS

GROUP 1XT

GROUP 1XU

GROUP 1XV

GROUP 1XW

GROUP 1XX

GROUP 1XY

GROUP 1XZ

GROUP 1YA

GROUP 1YB

GROUP 1YC

GROUP 1YD

GROUP 1YE

GROUP 1YF

GROUP 1YG

GROUP 1YH

GROUP 1YI

GROUP 1YJ

GROUP 1YK

GROUP 1YL

GROUP 1YM

GROUP 1YN

GROUP 1YO

GROUP 1YP

GROUP 1YQ

GROUP 1YR

GROUP 1YS

GROUP 1YT

GROUP 1YU

GROUP 1YV

GROUP 1YW

GROUP 1YX

GROUP 1YY

GROUP 1YZ

GROUP 1ZA

GROUP 1ZB

GROUP 1ZC

GROUP 1ZD

GROUP 1ZE

GROUP 1ZF

GROUP 1ZG

GROUP 1ZH

GROUP 1ZI

GROUP 1ZJ

GROUP 1ZK

GROUP 1ZL

GROUP 1ZM

GROUP 1ZN

GROUP 1ZO

GROUP 1ZP

GROUP 1ZQ

GROUP 1ZR

GROUP 1ZS

GROUP 1ZT

GROUP 1ZU

GROUP 1ZV

GROUP 1ZW

GROUP 1ZX

GROUP 1ZY

GROUP 1ZZ

12

CP

PROCESSES AND PROPERTIES INDEX

The preparation of nitrobenzene with a maximum specific resistance. 1. Zepakova-Mikhailova. *Trans. Inst. Pure Chem. Research* (C. S. S. R.) No. 14, 49-57 (1935). Nitrobenzene (I) with a sp. resistance ( $\rho$ ) of about  $10^9$  ohms per cc. was desired for special purposes in television app. A freshly distd. sample of I having phys. consts. as given in the literature had  $\rho = 4.20 \times 10^9$  (817 v.), and  $9.74 \times 10^9$  (65.5 v.); before distn. it had  $7.13 \times 10^9$  (870 v.) and  $3.62 \times 10^9$  (66.5 v.). After treatment with  $Al_2O_3$  and drying over  $P_2O_5$  and distn., it had  $1.86 \times 10^9$  (722 v.) and  $1.27 \times 10^9$  (133 v.); after treatment with  $Ag_2O$  and drying over  $CaCl_2$  and distn.,  $0.4 \times 10^9$  (870 v.) and  $1.75 \times 10^9$  (133 v.); and this last when redistd. res.  $0.04 \times 10^9$  (1020 v.) and  $4.34 \times 10^9$  (100.5 v.).

When I was steam-distd. in the presence of  $N NaOH$  the sample of I obtained had  $\rho 10^9$ . However, when  $CaH_2$  (NO<sub>2</sub>) is absent, the passage of an elec. current through I rapidly increased  $\rho$ . At 18°,  $\rho$  varied from  $2.27 \times 10^9$  (1366.3 v.) to  $2.73 \times 10^9$  (181.25 v.). When I was partially frozen, the liquid portion had a higher  $\rho$  than the solid ( $1.15 \times 10^9$  and  $0.103 \times 10^9$  at 1197 v.). On storing for more than 4 days,  $\rho$  fell to as low as  $10^9$ . From I prepd. from PhI under mild conditions (30°, excess  $H_2SO_4$ , 98%), theoretical quantity  $HNO_3$  the numerous samples obtained by various methods of purification were always unstable in that  $\rho$  decreased on storage. The use of different types of glass in the app. for the prepn. did not solve the difficulty. I prepd. from  $p-NO_2C_6H_4NH_2$  in boiling  $AcOH$ , contg.  $AcONa$  equiv. to  $H_2SO_4$ ,  $NH_3$  to boiling  $AcOH$ , contg.  $AcONa$  equiv. to  $H_2SO_4$ , formed by the addn. of  $CuSO_4$ , had  $\rho = 1.05 \times 10^9$  (81.7 v.),  $1.95 \times 10^9$  (473 v.) and  $1.20 \times 10^9$  (137) R v.). The  $\rho$  of this product also decreased on standing.

Lewis W. Burr

ASD-35A METALLURGICAL LITERATURE CLASSIFICATION

Critical solution temperatures of certain alcohols. 1.  
A. Zepalova-Mikhailova. Trans. Inst. Pure Chem.  
Moscow (U. S. S. R.) No. 13, 3-19(1937).—The solu-  
bilities and curves of crit. temp. of soly. are shown for  
the binary systems (1) bisoctyl (1) in abs. EtOH and  
(2) paraffin oil, d<sub>4</sub> 0.8723, in abs. PrOH and iso-PrOH.  
An increase of 0.1% of crit. temp. of soly. corresponds to  
0.0037-0.0019% H<sub>2</sub>O in EtOH. In the system (2) the  
presence of moisture affects the increase of crit. temp. of  
soly. considerably and that of abs. EtOH but very little.  
Modified standard procedures for the prepn. of the abs.  
alcs. and 1 are given. The consts. of these references  
in accord with the published data. Sixty references.  
Chas. Hane.

117 AND 119 SERIES										140 AND 141 SERIES									
PROCESS AND PROPERTIES INDEX																			
<div style="display: flex; justify-content: space-between;"> <span>u</span> <span>2</span> </div> <p> <i>Ebulliometric investigation of pure liquids. I. Zepali-              ov, Mikhailov. Trans. Inst. Pure Chem. Respts.              (U. S. S. R.) No. 16, 51-72 (1939); Khim. Referat. Zhur.              1939, No. 3, 70-1. By detg. in a Swietoslawski ebulli-              scope <math>\Delta t</math> (difference between the b. p. and the condensa-              tion temp.) which characterizes the degree of purity of a              substance. M. proved the limiting purity, <math>V</math>, (degree of              purity on the Swietoslawski scale) of methyl, ethyl,              propyl, isopropyl, butyl and isobutyl alcs., acetone and              C<sub>12</sub>H<sub>5</sub>Br. The const. of propyl, isopropyl and butyl alcs.              were identical with those obtained by Timmermans. The  <math>d_4^{20}</math> (in some) of the limiting-pure EtOH was 0.79357;              the values obtained by Mendeleev and Doroshevskii are              erroneous. The <math>d_4</math> of methyl and isobutyl alcs. were              slightly different from those of Timmermans. The ebulli-              ometric const. were very sensitive to the presence of              smallest amts. of impurities. The technique of ebulli-              ometry is described, and const. of the synthesized limiting-              pure liquids and methods of their synthesis are given.              W. R. Henn           </i> </p>																			
<div style="display: flex; justify-content: space-between;"> <div> <p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>150000 014</p> </div> <div> <p>150000 014</p> </div> </div>																			
150000 014										150000 014									



117 AND 210 CODES																										140 AND 4TH CODES																																																																																																																																				
PROCESSES AND PROPERTIES INDEX																																																																																																																																																														
<p>ca</p> <p>Electrolytic reduction of acetylpropyl alcohol. H. P. Krashov and L. A. Zepakova-Mikhailova. <i>J. Applied Chem. (U. S. S. R.)</i> 16, 383-7(1943).—Electrolytic reduction of acetylpropyl alc. in <math>H_2SO_4</math> soln. with Cd or Cd-treated cathode is capable of yielding over 60% of pure <math>AmOH</math>, under conditions of 0.1 amp./sq. cm., 38-42° and 10% acid concn. The process appears to be superior to Clemmensen reduction. O. M. Kinc'spoff</p>																																																																																																																																																														
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																																																																																																																																																														
140 AND 4TH CODES																										117 AND 210 CODES																																																																																																																																				
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																																																				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																																																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																																																																																																											

ZEPCHLA, W.

"Influence of Low Temperatures on the Development of Yeast." p. 150, (Roczniki Nauk Rolniczych. SERIA A-ROSLINNA, Vol. 66, no. 3, 1953, Warsaw, Poland).

SO: Monthly List of East European Accession, Lib of Congress, Vol 2, no 10 Oct. 1953, Uncl.

2 EPE, 4.0,

USSR/Physics - Spectral analysis

Card 1/1 Pub. 43 - 24/62

Authors : Zepa, M. D.

Title : Connection between combined diffusion spectra and electron spectra of molecules

Periodical : Izv. AN SSSR. Ser. fiz. 18/6, 684-685, Nov-Dec 1954

Abstract : The mathematical procedure, the formulas and functions, necessary for the determination of the bond between the spectra of combined diffusion and the electron spectra of molecules are explained. The adoption of linear approximations in the calculations is discussed.

Institution : Acad. of So., Latv. SSR, Physics Inst.

Submitted : .....

ZEPĒ, Milda; FELDHUNE, A., red.; ZUKOVSKA, A., tekhn. red.

[Cosmic rays] Kosmiskie stari. Rīga, Latvijas PSR. Zinātņu  
akadēmijas izdevniecība, 1957. 77 p. (MIRA 15:3)  
(Cosmic rays)

AUTHORS: Gorbacheva, I. N., Lerner, M. I., 79-12-35/43  
Zapesochnaya, G. G., Varnakova, L. P.,  
Preobrazhenskiy, N. A.

TITLE: Investigations in the Field of the Synthesis of the  
Alkaloid Magnolamine (Issledovaniye v oblasti sinteza alkaloida  
Magnolamina).

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 12,  
pp. 3353-3357 (USSR)

ABSTRACT: On the basis of the investigations conducted by the  
authors, the formula I was proposed for magnolamine in this  
paper. By a complete synthesis it was possible to establish  
the structure of this alkaloid definitively. In the present  
investigation it was succeeded to produce the basic inter-  
mediate product of the synthesis of the dimethylether of  
magnolamine. By means of a condensation of the dichlorine  
anhydride of the 3,4 - dimethyloxy - 4,6 - dicarboxymethyl  
diphenylether (formula II) with - (3 - methoxy - 4 -  
benzyloxy) - phenylethylamine (formula III) the diamide  
was obtained (formula IV) the simultaneous closing of the  
two isoquinoline rings lead to the dichloric hydrate of the  
3,4 - dimethoxy - 4",6' - [ bi - (6 - methoxy - 7 - benzyl-

Card 1/2

Investigations in the Field of the Synthesis of the Alkaloid Magnolamine 79-12-35/43

oxi) - 3,4 dihydro - isoquinolyle] - dimethylphenylether (formula V). A further hydration, a methylation and a removal of the benzyl residua must lead to the dioxymethylether of the magnolamine. The 3,4 - dimethoxy - 4',6 - dicarboxymethyldiphenylether (formula II) was produced by two methods. The further reaction process is represented by the formulae VI, VII, VIII, and IX. From this it appears, that a basic intermediate product of the synthesis of the dimethylether of the alkaloid magnolamine has been synthesized. There are 6 references, 2 of which are Slavic.

ASSOCIATION: Moscow Institute of Fine Chemical Technology (Moskovskiy institut tonkoy khimicheskoy tekhnologii).

SUBMITTED: August 21, 1956

AVAILABLE: Library of Congress

Card 2/2 1. Magnolamine - Synthesis 2. Alkaloids - Synthesis

PROCESSING AND PROPERTIES INDEX																																																																																																																																																																																																																																											
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS																																																																																																																																																																																																																														
<p>BC</p> <p>Anti-ovulatory substances isolated from the urine of 6-year-old girl.  P. Zepher and M. Dobrovolskaya-Lavashina. (Comm. Acad. Sci.  Sov. 1949-1954-75-76). The urinary extract antagonizes the  action of chorionic gonadotropin in immature male or female rats  but not that of testosterone in spayed adult rats. P. C. W.</p>																																																																																																																																																																																																																																											
<p>ASM-SLA METABOLIC LITERATURE CLASSIFICATION</p>																																																																																																																																																																																																																																											
<table border="1"> <tr> <td>1949-1954</td> <td>1955-1959</td> <td>1960-1964</td> <td>1965-1969</td> <td>1970-1974</td> <td>1975-1979</td> <td>1980-1984</td> <td>1985-1989</td> <td>1990-1994</td> <td>1995-1999</td> <td>2000-2004</td> <td>2005-2009</td> <td>2010-2014</td> <td>2015-2019</td> <td>2020-2024</td> <td>2025-2029</td> <td>2030-2034</td> <td>2035-2039</td> <td>2040-2044</td> <td>2045-2049</td> <td>2050-2054</td> <td>2055-2059</td> <td>2060-2064</td> <td>2065-2069</td> <td>2070-2074</td> <td>2075-2079</td> <td>2080-2084</td> <td>2085-2089</td> <td>2090-2094</td> <td>2095-2099</td> <td>2100-2104</td> <td>2105-2109</td> <td>2110-2114</td> <td>2115-2119</td> <td>2120-2124</td> <td>2125-2129</td> <td>2130-2134</td> <td>2135-2139</td> <td>2140-2144</td> <td>2145-2149</td> <td>2150-2154</td> <td>2155-2159</td> <td>2160-2164</td> <td>2165-2169</td> <td>2170-2174</td> <td>2175-2179</td> <td>2180-2184</td> <td>2185-2189</td> <td>2190-2194</td> <td>2195-2199</td> <td>2200-2204</td> <td>2205-2209</td> <td>2210-2214</td> <td>2215-2219</td> <td>2220-2224</td> <td>2225-2229</td> <td>2230-2234</td> <td>2235-2239</td> <td>2240-2244</td> <td>2245-2249</td> <td>2250-2254</td> <td>2255-2259</td> <td>2260-2264</td> <td>2265-2269</td> <td>2270-2274</td> <td>2275-2279</td> <td>2280-2284</td> <td>2285-2289</td> <td>2290-2294</td> <td>2295-2299</td> <td>2300-2304</td> <td>2305-2309</td> <td>2310-2314</td> <td>2315-2319</td> <td>2320-2324</td> <td>2325-2329</td> <td>2330-2334</td> <td>2335-2339</td> <td>2340-2344</td> <td>2345-2349</td> <td>2350-2354</td> <td>2355-2359</td> <td>2360-2364</td> <td>2365-2369</td> <td>2370-2374</td> <td>2375-2379</td> <td>2380-2384</td> <td>2385-2389</td> <td>2390-2394</td> <td>2395-2399</td> <td>2400-2404</td> <td>2405-2409</td> <td>2410-2414</td> <td>2415-2419</td> <td>2420-2424</td> <td>2425-2429</td> <td>2430-2434</td> <td>2435-2439</td> <td>2440-2444</td> <td>2445-2449</td> <td>2450-2454</td> <td>2455-2459</td> <td>2460-2464</td> <td>2465-2469</td> <td>2470-2474</td> <td>2475-2479</td> <td>2480-2484</td> <td>2485-2489</td> <td>2490-2494</td> <td>2495-2499</td> <td>2500-2504</td> <td>2505-2509</td> <td>2510-2514</td> <td>2515-2519</td> <td>2520-2524</td> <td>2525-2529</td> <td>2530-2534</td> <td>2535-2539</td> <td>2540-2544</td> <td>2545-2549</td> <td>2550-2554</td> <td>2555-2559</td> <td>2560-2564</td> <td>2565-2569</td> <td>2570-2574</td> <td>2575-2579</td> <td>2580-2584</td> <td>2585-2589</td> <td>2590-2594</td> <td>2595-2599</td> <td>2600-2604</td> <td>2605-2609</td> <td>2610-2614</td> <td>2615-2619</td> <td>2620-2624</td> <td>2625-2629</td> <td>2630-2634</td> <td>2635-2639</td> <td>2640-2644</td> <td>2645-2649</td> <td>2650-2654</td> <td>2655-2659</td> <td>2660-2664</td> <td>2665-2669</td> <td>2670-2674</td> <td>2675-2679</td> <td>2680-2684</td> <td>2685-2689</td> <td>2690-2694</td> <td>2695-2699</td> <td>2700-2704</td> <td>2705-2709</td> <td>2710-2714</td> <td>2715-2719</td> <td>2720-2724</td> <td>2725-2729</td> <td>2730-2734</td> <td>2735-2739</td> <td>2740-2744</td> <td>2745-2749</td> <td>2750-2754</td> <td>2755-2759</td> <td>2760-2764</td> <td>2765-2769</td> <td>2770-2774</td> <td>2775-2779</td> <td>2780-2784</td> <td>2785-2789</td> <td>2790-2794</td> <td>2795-2799</td> <td>2800-2804</td> <td>2805-2809</td> <td>2810-2814</td> <td>2815-2819</td> <td>2820-2824</td> <td>2825-2829</td> <td>2830-2834</td> <td>2835-2839</td> <td>2840-2844</td> <td>2845-2849</td> <td>2850-2854</td> <td>2855-2859</td> <td>2860-2864</td> <td>2865-2869</td> <td>2870-2874</td> <td>2875-2879</td> <td>2880-2884</td> <td>2885-2889</td> <td>2890-2894</td> <td>2895-2899</td> <td>2900-2904</td> <td>2905-2909</td> <td>2910-2914</td> <td>2915-2919</td> <td>2920-2924</td> <td>2925-2929</td> <td>2930-2934</td> <td>2935-2939</td> <td>2940-2944</td> <td>2945-2949</td> <td>2950-2954</td> <td>2955-2959</td> <td>2960-2964</td> <td>2965-2969</td> <td>2970-2974</td> <td>2975-2979</td> <td>2980-2984</td> <td>2985-2989</td> <td>2990-2994</td> <td>2995-2999</td> </tr> </table>																										1949-1954	1955-1959	1960-1964	1965-1969	1970-1974	1975-1979	1980-1984	1985-1989	1990-1994	1995-1999	2000-2004	2005-2009	2010-2014	2015-2019	2020-2024	2025-2029	2030-2034	2035-2039	2040-2044	2045-2049	2050-2054	2055-2059	2060-2064	2065-2069	2070-2074	2075-2079	2080-2084	2085-2089	2090-2094	2095-2099	2100-2104	2105-2109	2110-2114	2115-2119	2120-2124	2125-2129	2130-2134	2135-2139	2140-2144	2145-2149	2150-2154	2155-2159	2160-2164	2165-2169	2170-2174	2175-2179	2180-2184	2185-2189	2190-2194	2195-2199	2200-2204	2205-2209	2210-2214	2215-2219	2220-2224	2225-2229	2230-2234	2235-2239	2240-2244	2245-2249	2250-2254	2255-2259	2260-2264	2265-2269	2270-2274	2275-2279	2280-2284	2285-2289	2290-2294	2295-2299	2300-2304	2305-2309	2310-2314	2315-2319	2320-2324	2325-2329	2330-2334	2335-2339	2340-2344	2345-2349	2350-2354	2355-2359	2360-2364	2365-2369	2370-2374	2375-2379	2380-2384	2385-2389	2390-2394	2395-2399	2400-2404	2405-2409	2410-2414	2415-2419	2420-2424	2425-2429	2430-2434	2435-2439	2440-2444	2445-2449	2450-2454	2455-2459	2460-2464	2465-2469	2470-2474	2475-2479	2480-2484	2485-2489	2490-2494	2495-2499	2500-2504	2505-2509	2510-2514	2515-2519	2520-2524	2525-2529	2530-2534	2535-2539	2540-2544	2545-2549	2550-2554	2555-2559	2560-2564	2565-2569	2570-2574	2575-2579	2580-2584	2585-2589	2590-2594	2595-2599	2600-2604	2605-2609	2610-2614	2615-2619	2620-2624	2625-2629	2630-2634	2635-2639	2640-2644	2645-2649	2650-2654	2655-2659	2660-2664	2665-2669	2670-2674	2675-2679	2680-2684	2685-2689	2690-2694	2695-2699	2700-2704	2705-2709	2710-2714	2715-2719	2720-2724	2725-2729	2730-2734	2735-2739	2740-2744	2745-2749	2750-2754	2755-2759	2760-2764	2765-2769	2770-2774	2775-2779	2780-2784	2785-2789	2790-2794	2795-2799	2800-2804	2805-2809	2810-2814	2815-2819	2820-2824	2825-2829	2830-2834	2835-2839	2840-2844	2845-2849	2850-2854	2855-2859	2860-2864	2865-2869	2870-2874	2875-2879	2880-2884	2885-2889	2890-2894	2895-2899	2900-2904	2905-2909	2910-2914	2915-2919	2920-2924	2925-2929	2930-2934	2935-2939	2940-2944	2945-2949	2950-2954	2955-2959	2960-2964	2965-2969	2970-2974	2975-2979	2980-2984	2985-2989	2990-2994	2995-2999
1949-1954	1955-1959	1960-1964	1965-1969	1970-1974	1975-1979	1980-1984	1985-1989	1990-1994	1995-1999	2000-2004	2005-2009	2010-2014	2015-2019	2020-2024	2025-2029	2030-2034	2035-2039	2040-2044	2045-2049	2050-2054	2055-2059	2060-2064	2065-2069	2070-2074	2075-2079	2080-2084	2085-2089	2090-2094	2095-2099	2100-2104	2105-2109	2110-2114	2115-2119	2120-2124	2125-2129	2130-2134	2135-2139	2140-2144	2145-2149	2150-2154	2155-2159	2160-2164	2165-2169	2170-2174	2175-2179	2180-2184	2185-2189	2190-2194	2195-2199	2200-2204	2205-2209	2210-2214	2215-2219	2220-2224	2225-2229	2230-2234	2235-2239	2240-2244	2245-2249	2250-2254	2255-2259	2260-2264	2265-2269	2270-2274	2275-2279	2280-2284	2285-2289	2290-2294	2295-2299	2300-2304	2305-2309	2310-2314	2315-2319	2320-2324	2325-2329	2330-2334	2335-2339	2340-2344	2345-2349	2350-2354	2355-2359	2360-2364	2365-2369	2370-2374	2375-2379	2380-2384	2385-2389	2390-2394	2395-2399	2400-2404	2405-2409	2410-2414	2415-2419	2420-2424	2425-2429	2430-2434	2435-2439	2440-2444	2445-2449	2450-2454	2455-2459	2460-2464	2465-2469	2470-2474	2475-2479	2480-2484	2485-2489	2490-2494	2495-2499	2500-2504	2505-2509	2510-2514	2515-2519	2520-2524	2525-2529	2530-2534	2535-2539	2540-2544	2545-2549	2550-2554	2555-2559	2560-2564	2565-2569	2570-2574	2575-2579	2580-2584	2585-2589	2590-2594	2595-2599	2600-2604	2605-2609	2610-2614	2615-2619	2620-2624	2625-2629	2630-2634	2635-2639	2640-2644	2645-2649	2650-2654	2655-2659	2660-2664	2665-2669	2670-2674	2675-2679	2680-2684	2685-2689	2690-2694	2695-2699	2700-2704	2705-2709	2710-2714	2715-2719	2720-2724	2725-2729	2730-2734	2735-2739	2740-2744	2745-2749	2750-2754	2755-2759	2760-2764	2765-2769	2770-2774	2775-2779	2780-2784	2785-2789	2790-2794	2795-2799	2800-2804	2805-2809	2810-2814	2815-2819	2820-2824	2825-2829	2830-2834	2835-2839	2840-2844	2845-2849	2850-2854	2855-2859	2860-2864	2865-2869	2870-2874	2875-2879	2880-2884	2885-2889	2890-2894	2895-2899	2900-2904	2905-2909	2910-2914	2915-2919	2920-2924	2925-2929	2930-2934	2935-2939	2940-2944	2945-2949	2950-2954	2955-2959	2960-2964	2965-2969	2970-2974	2975-2979	2980-2984	2985-2989	2990-2994	2995-2999																										

[illegible]



1ST AND 2ND CROSS																									
PROCESSES AND PROPERTIES INDEX																									
<p>BC</p> <p style="text-align: right;">A 4</p> <p>Effects of pineal and hypothalamic extracts on tumour growth in mice.  N. Dobrovolskaya-Zavadskaya and P. Zepherov (Compt. rend. Soc.  Biol., 1966, 264, 66-68).--Extracts of the organs of a urinary  tract of probable pineal origin had variable effects on the rate of  growth of spontaneous tumours in mice. P. C. W.</p>																									
<p>ASB-1-1-1 OFFICIAL LITERATURE CLASSIFICATION</p>																									

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESS AND PROPERTIES INDEX																																																			
<p>BC</p> <p>Effect of physical and chemical extracts on tumour development in mice. N. Dobrovolskaya-Zavadskaya and P. Zephirull (Gomel. Acad. Sci. Biol. 1940, 284, 7th-81). Variable effects are reported. P. C. W.</p>																																																			
ASA-ALA METALLURGICAL LITERATURE CLASSIFICATION																																																			

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSING AND PROPERTY INDEX																																																			
<p>Quantitative study of tumor growth in mice treated with extracts of adrenal cortex. N. Dolgova-Kata-Zavadskaya and I. Zepheroff. <i>Compt. rend. soc. biol.</i> 132, 352-5 (1939).—Repeated injections of aq. ext. of adrenal cortex retarded the growth of various types of cancer.</p> <p style="text-align: right;">L. E. Gilson</p>																																																			
<p>ASD-554 METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>SEARCHED INDEXED SERIALIZED FILED</p>																																																			

ZEPIC, J.

Interlocking capacity of the switches of a low-tension and alternating-current motor, with special regard to contactors with silver contact. In French and Slovenian. p. al9.

Periodical: ELEKTROTEHNISKI VESTNIK

Vol. 26, no. 7/8, 1958.

TECHNOLOGY

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, No. 4  
April 1959, Uncl.

ZEPIC, V.

"The World Power Conference; its work during the session in Belgrade, June 1957."

p. 259 (Energija) Vol. 6, no. 9/10, Sept./Oct. 1957  
Zagreb, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

ZEPIC, Vladimir

Forty years of the activities of the World Power Conference.  
Elektroprivreda 17 no.7/8:315-317 J1-Ag '64.

8(6)

YUG/3-59-1-15/26

AUTHOR: Žepić, V., Engineer, Professor

TITLE: Visit of Mr. William L Newmeyer, Expert from American Technical Aid, to the Yugoslavian Public Electricity Supply (Poseta G. Williama L. Newmeyera, stručnjaka američke tehničke pomoći jugoslovenskoj elektroprivredi)

PERIODICAL: Elektroprivreda, 1959, Nr 1, pp 39 - 40 (YUG)

ABSTRACT: The article discusses the visit of Mr. Newmeyer, and gives a brief summary of the problems he discussed.

Card 1/1

ZEPIC, Vladimir, prof. inz.

Size and importance of the hydroelectric power plant "Split."  
Tesla 9 no.3:7-10 '62.

1. Zajednica elektroprivrednih poduzeca Hrvatske, Zagreb,  
Proleterskih brigada 37.



ZEPIC, Vladimir, prof. inz.

Prof. Dr. Eng. Milan Vidmar; obituary. Energija Hrv 11 no.9/10:  
281-282 no.9/10;281-282 '62.

1. Clan Urednickog odbora, "Energija".

ADAMSKI, Czesław, doc. dr inż.; ZIOLKOWSKI, Stanisław, inż.; ZEP  
Ireneusz, mgr inż.

Influence of the melting technology on the mechanical  
properties and structure of special Cu54Mn4Fe11Sn11Zn bronze.  
Przegl odlew 13 no. 12:328-332 D '63.

ZEPKOVA G. A.		PROCESSES AND PROPERTIES INDEX	
<p>Concentration of vitamin C in certain plant species of central Asia. G. A. Zepkova. <i>Compl. rend. acad. sci. U.R.S.S.</i> 48, 685-8 (1945) (in English).—Altitude and light effects on various plant species were studied. Of the wild alpine species of plants, Rosaceae and Papilionaceae contain the greatest amt. of vitamin C (I). As their habitats extd. to higher altitudes, <i>Rosa alberti</i> and <i>Madi- cago tianschanica</i> showed a gradual increase in the content of I. During fructification, the leaves of <i>Rosa</i> spp. and <i>Malus pumila</i> contained very little I; this indicates a migration of I from the leaves to the fruits; thus the fruits should be harvested when fully ripe. The content of I fluctuates during the day, being a max. around noontime. The fruits should be dried in the shade since sun radiation decomposes ascorbic acid. H. M. Kascher</p>		112	
Cent. Asian State Univ.			
ASB-SEA DETALLURGICAL LITERATURE CLASSIFICATION			
SACROS PJ		SACROS PJ	

ZEPLYAYEV, P.P.

"Similitude Properties of Electric Circuits with Constant Parameters,"

Dok. AN, 30, No. 4, 1941. Mbr., Inst. Precision Mechanics and Optics,

Leningrad, -1941-.

POLAND/Pharmacology and Toxicology - Cardiovascular Agents.

V-6

Abs Jour : Ref Zhur - Biol., No 21, 1958, 98548

Author : Zera, Edmund; Jagielski, Stanislaw

Inst : -

Title : Restoration of Sinus Rhythms in Patients with Auricular Fibrillation by Means of Quinidine.

Orig Pub : Polski tygod. lekar., 1957, 12, No 23, 867-871

Abstract : Results of treatment with quinidine sulfate (0.6-4 g daily) of 96 patients with auricular fibrillation of various etiology, are reported. Restoration of sinus rhythm was observed in 69 patients (79.3%). Stable sinus rhythm, followed up for 1-3 years, was noted in 40 patients (50%). Indications for use of quinidine in auricular fibrillation are investigated and the possibilities of attaining a stable sinus rhythm with the aid of quinidine are discussed.  
-- G.I. Arsen'yev

Card 1/1

ZERA, Edmund; HOFFMAN, Maria; JANIK, Zofia; IIMURZYNSKA, Krystyna;  
KRZYŻANOWSKA, Regina

Rehabilitation of myocardial infarction patients under  
sanatorial conditions. Pol. tyg. lek. 18 no, 34:1264-1267  
19 Ag 1963.

1. Z Kardiologicznego Ośrodka Rehabilitacji Pospitalnej w  
Sanatorium w Nałęczowie i z Kliniki Kardiologii Studium  
Doskonalenia Lekarzy w AM w Warszawie; kierownik: prof. dr  
med. Edmund Zera.

(MYOCARDIAL INFARCT) (REHABILITATION)

ZERA, Edmund; MOJKOWSKA, Halina

Restoration of the sinus rhythm in mitral stenosis following commissurotomy. Pol. arch. med. wewn. 34 no.4:455-460 '64

1. Z Kliniki Kardiologii Studium Doskonalenia Lekarzy w Akademii Medycznej w Warszawie (Kierownik: prof. dr. med. E. Zer ,.

ZERA, Edmund; MOJKOWSKA, Halina

Evaluation of therapeutic results in subacute bacterial endocarditis according to data on 140 cases. Polskie arch. med. wewnetrz. 30 no.10:1303-1310 '60.

1. Z Kliniki Kardiologii Studium Doskonalenia Lekarzy w Akademii Medycznej w Warszawie i Oddziału Kardiologicznego Szpitala Miejskiego nr 6 w Warszawie. Kierownik: prof. dr med. E. Zera.

(ENDOCARDITIS SUBACUTE BACTERIAL ther)



ZERA, Edmund; HOFFMAN, Maria

Studies on the behavior of glutamic-aceto-exalic transaminase,  
aldolase and c-reactive proteins in myocardial infarction.  
Polskie arch. med. wewn. 31 no.2:217-225 '61.

1. Z Kliniki Kardiologii Studium Doskonalenia Lekarzy A.M. w  
Warszawie Kierownik: prof. dr med. E. Zera.

(MYOCARDIAL INFARCT blood) (TRANSAMINASES blood)  
(ALDOLASE blood) (C-REACTIVE PROTEINS blood)

ZERA, Edmund

Cardiac disorders in gastrointestinal diseases. Wiadomosci lek. 7  
no.10:509-515 Oct 54.

(HEART, in various diseases,  
gastrointestinal dis.)

(GASTROINTESTINAL DISEASES, physiology,  
heart)

ZERA, Edmund

Headaches in cardiovascular diseases. Wiad. lek. 18 no.19:  
1493-1497 1 0 '65.

1. Z Kliniki Kardiologii Studium Doskonalenia Lekarzy w  
AM w Warszawie (Kierownik: prof. dr. med. E. Zera).

ZEBE. E.

Odd. Chorob Ukl., Krazenia, Szpit. Mlojskiego Nr. 6, Warszawa  
\*Wyniki kliniczne leczenia przewlekłej niewydolności krążenia  
dieta niskosodowa. Clinical results of a low sodium diet in the  
treatment of chronic congestive heart failure. POLSK. TYG. LEK.  
1953, 8/34 (1161-1169) Graphs 2 Tables 3

The diet, containing 350-500 mg. of sodium and 2000 cal. daily was given to 72 patients. It was very successful, particularly in serious cases resistant to routine therapeutic measures. The best results were obtained in cases of coronary heart disease with myocardial degeneration and good results in chronic cor pulmonale; they were unsatisfactory in mitral stenosis. Blood sodium decreased by an average of 23.6 % after this treatment. The fluid intake should not be limited.

Gibinski - Bytom

SO: EXCERPTA MEDICA, Vol. 8, No. 5, Section VI, May 1954

POLAND

ZERA, Edmund, Prof. Dr., Director of Cardiology Clinic (Klinika Kardiologii), Physicians' Postgraduate Training Program (Studium Doskonalenia Lekarzy), AM [Akademia Medyczna, Medical Academy] in Warsaw

"Selected Problems of Clinical Aspects of Atrial Arrhythmias."  
Warsaw, Polski Tygodnik Lekarski, Vol 18, No 39, 23 Sep 63,  
pp 1455-1459

Abstract: Lecture delivered before Polish Cardiological Society (Polskie Towarzystwo Kardiologiczne) meeting in Lodz. Author notes that atrial arrhythmias, clinically most frequently manifested as premature beat, atrial tachycardia, and atrial flutter or fibrillation, are sometimes difficult to detect and may not involve circulatory difficulties, but mostly do, and it is the consequences of these circulatory disturbances which determine the danger of the illness and the urgency of treatment. He then discusses in detail premature beats, paroxysmal supraventricular tachycardia, atrial flutter and atrial fibrillation, their hemodynamics and their determination, and concludes by discussing diagnostic procedures and treatment, with special note of the most recent anti-arrhythmic drugs. There are 14 Western references.

1/1

ZERA, Edmund; KRZYŻANOWSKA, Regina

Symmetric peripheral gangrene consecutive to paroxysmal  
ventricular tachycardia. Polski tygod lek 15 no.11:392-395  
14 Mr '60.

1. Z Zakładu Kardiologii-Studium Doskonalenia Lekarzy A.M. w  
Warszawie; kierownik: prof. dr med. Edmund Zera.

(TACHYCARDIA compl.)

(GANGRENE etiol.)

ZERA, Edmund; JAGIELSKI, Stanislaw

Studies on restoration of sinus rhythm in auricular fibrillation with the aid of quinidine. Polski tygod. lek. 12 no.23:867-871 3 June 57.

1. Z Zakładu Kardiologii Inst. Dosk. i Specj. Kadr Lek. oraz z Oddziału Kardiologicznego Szpitala Miejskiego 6 w Warszawie; kierownik: prof dr. med. Edmund Zera. Adres: Warszawa, ul. Gossoszyńskiego 1.

(AURICULAR FIBRILLATION, therapy,

quinidine, restoration of auric. fibrill. (Pol))

(QUINIDINE, therapeutic use,

auric. fibrill., restoration of auric. fibrill (Pol))

ZERA, Edmund

In memoriam Masciwoj Semerau-Siemianowski. Kardiol. polska  
1 no.3-4:13-17 1955.

(OBITUARIES,  
Semerau-Siemianowski, Masciwoj (Pol))



POLAND

ZERA, Edmund, HOFFMAN, Maria, JANIK, Zofia, ILMURZYNSKA, Krystyna, and KRZYZANOWSKA, Regina; Post-hospital Cardiological Rehabilitation Center (Kardiologiczny Ośrodek Rehabilitacji Pozszpitalnej) at the Sanatorium in Maleczow and Cardiology Clinic (Klinika Kardiologiczna) of the Physicians' Postgraduate Training Program (Studium Doskonalenia Lekarzy), AM [Akademia Medyczna, Medical Academy] in Warsaw (Director: Prof. Dr. med. Edmund ZERA)

"Rehabilitation of Patients with Myocardial Infarction."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 34, 19 Aug 63, pp 1264-1267

Abstract: [Authors' English summary modified] Authors report on procedures and determinations used to ascertain the effectiveness of sanatorium rehabilitation on patients with a history of myocardial infarction. They found the procedure helpful to patients recovery and determination of capacity for work. Effectiveness of rehabilitation depended more on extent of original injury than on the age, sex, localization, complications during first attack, and number of attacks. 8 refs: 3 Polish, 8 Western.  
1/1

ACC NR: AR6027462

SOURCE CODE: UR/0044/66/000/005/B051/B051

AUTHOR: Zeragia, P. K.

TITLE: <sup>16</sup> Solution of boundary problems for a nonlinear hyperbolic differential equation with the generalized Chaplygin method

SOURCE: Ref. zh. Matematika, Abs. 5B247

REF SOURCE: Tr. Tbilissk. un-ta, v. 110, 1965, 145-154

TOPIC TAGS: nonlinear equation, hyperbolic equation, boundary value problem, differential equation

ABSTRACT: Gurs and Koshi problems for the equation  $u_{xy} = f(x, y, u, p, q)$ , where  $f$  does not diminish after the last three arguments, reduce to an integral equation for which the theorem of integral inequality applies. Successive approximations, with a proper choice of the zero point, result in a uniform convergence to the solution of the differential equation. [Translation of abstract] N. Azbelev, Z. Tsalyuk

SUB CODE: 12

Card 1/1

UDC: 517.919

ZERAGIYA, D.P.

Variational theory of nonlinear equations. Soob. AN Gruz. SSR  
29 no.2:135-142 Ag '62. (MIRA 18:3)

1. Tbilisskiy gosudarstvennyy universitet. Submitted July 15, 1961.

ZERAGIYA, D.P.

Solution of Dirichlet's problem for certain nonlinear elliptic equations. 9-14 JI '63. (MIRA 17:7)

1. Vychislitel'nyy tsentr AN Gruzinskoy SSR, Tbilisi. Predstavleno akademikom V.D. Kupradze.

LEBSADZE, T.N.; NAKASHIIZE, G.A.; YELIGULASHVILI, I.A.; TALAKVAIZE, M.V.;  
ZERAGIYA, E.M.

Synthesis and electrophysical properties of polymers obtained  
by the polycondensation of acetone and 4,4'-diacetyl-p-ter-  
phenyl with terephthalaldehyde. Soob. AN Gruz. SSR 39  
no.1:75-79 JI '65. (MIRA 18:10)

1. Institut kibernetiki AN GruzSSR, Tbilisi. Submitted  
February 22, 1965.

ACCESSION NR: AP4038711

S/0251/64/034/001/0003/0010

AUTHOR: Zeragiya, P. K.

TITLE: Solution of a nonlinear integrodifferential equation by the method of upper and lower functions (Presented by Academician V. D. Kupradze on 15 September 1963)

SOURCE: AN GruzSSR. Soobshcheniya, v. 34, no. 1, 1964, 3-10

TOPIC TAGS: nonlinear integrodifferential equation, upper function, lower function, initial condition, existence, uniqueness, contracting mapping, integration limit, functional inequality

ABSTRACT: With the help of functional inequalities, under certain assumptions on the functions  $F$  and  $K$ , the author constructs sequences of upper and lower functions which converge uniformly to the desired solution of the nonlinear integrodifferential equation

$$y''(x) = F \left[ x, \lambda \int_a^x K(x, t, y(t), y'(t)) dt \right] \quad (1)$$

Card 1/2

ACCESSION NR: AP4038711

in each finite interval  $[a, b]$ . She wishes to find a function  $y(x)$  which is continuous and has continuous first and second derivatives in  $[a, b]$ , and which satisfies, in this interval, equation (1) and the initial conditions

$$y(a) = y_0, \quad y'(a) = y'_0, \quad (2)$$

where  $a, b, y_0, y'_0$  are given numbers. A proof of existence of a unique solution for (1) with constant upper limit of integration, for sufficiently small  $|\lambda| (b-a)$ , with the help of the contracting mapping principle, was given by O. Zhenkhen (O sushchestvovaniy i yedinstvennosti resheniy integro-differentsial'nykh uravneniy. DAN SSSR, t. LXXXVI, No. 2, 1952). Orig. art. has: 9 formulas.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: 15Sep63

DATE ACQ: 04Jun64

ENCL: 00

SUB CODE: MA

NO REF SOV: 001

OTHER: 000

Card 2/2

ZERAGIYA, P.K.

Solving a basic boundary problem for a system of differential equations of the parabolic type of Chaplygin's method. Soob.AN Gruz.SSR 26 no.3:257-264 Mr '61. (MIRA 14:4)

1. Tbilisskiy gosudarstvennyy universitet imeni Stalina. Predstavleno akademikom V.D.Kupradze.

(Differential equations)



ZERAGIYA, P.K.

Solution of boundary value problems for parabolic type equations  
by the method of potentials. Soob.AN Gruz. SSR 15 no.9:569-573  
'54. (MIRA 8:9)

1. Tbilisskiy gosudarstvennyy universitet imeni Stalina. Pred-  
stavleno deystvitel'nyy chlenom Akademii V.D.Kupradze.  
(Differential equations, Partial)

L 19430-63 EWT(d)/FCG(w)/BDS AFFTC/IJP(C)

ACCESSION NR: AR3005385

S/0044/63/000/006/V007/V007

54

SOURCE: RZh. Matematika, Abs. 6V17

AUTHOR: Zeragiya, P. K.

TITLE: On the application of Chaplygin's method to the solution of the basic boundary value problem for a single non-linear equation of the parabolic type

CITED SOURCE: Tr. Tbilissk. un-ta, v. 84, 1961(1962), 117-125.

TOPIC TAGS: Chaplygin method, numerical method, non-linear parabolic equation, Lyapunov surface, boundary value problem

TRANSLATION: In region D of an n-dimensional space R bounded by a closed Lyapunov surface S, the author considers a nonlinear differential equation of the parabolic type

$$\sum_{i,j=1}^n a_{ij}(x, t) \frac{\partial^2 u}{\partial x_i \partial x_j} - \frac{\partial u}{\partial t} = f(x, t, u). \quad (1)$$

where  $x(x_1, x_2, \dots, x_n)$  is a point in space R; t varies over the segment  $[0, T]$ , the coefficients  $a_{ij}(x, t)$  ( $i, j = 1, 2, \dots, n$ ) are continuous functions in the region

Card 1/2

L 19430-63

ACCESSION NR: AR3005385

$x \in D + S$ ,  $0 \leq t \leq T$ , and the quadratic form

$$\sum_{i,j=1}^n a_{ij} t_i t_j$$

is positively defined in the same region. In earlier studies the author applied Chaplygin's method to the solution of nonlinear parabolic equations. The function  $f(x, t, u)$  was assumed continuous along with  $f_u$  and  $f_u > 0$  for  $x \in D + S$ ,  $0 \leq t \leq T$  and  $-\infty < u < +\infty$ . In the present study he establishes the basic differential inequalities and proves the existence and singularity of the solution of the basic boundary problem for equation (1) with the following assumptions:  $f(x, t, u)$  is continuous in the region  $x \in D + S$ ,  $0 \leq t \leq T$ ,  $-\infty < u < +\infty$ ;  $f(x, t, u)$  is a monotonically increasing function of  $u$ , i.e., if  $u_1 \leq u_2$ , then  $f(x, t, u_1) \leq f(x, t, u_2)$ . M.

Aleksidze.

DATE ACQ: 24Jul63

SUB CODE: LM

ENCL: 00

Card 2/2

ACC NR: AR6027463

SOURCE CODE: UR/0044/66,000/005/B051/B051

AUTHOR: Zeragiya, P. K.

TITLE: Solution of a hybrid problem for a nonlinear hyperbolic equation with a generalized Chaplygin method

SOURCE: Ref. zh. Matematika, Abs. 5B248

REF SOURCE: Tr. Tbilissk. un-ta, v. 110, 1965, 155-162

TOPIC TAGS: hyperbolic equation, nonlinear equation, approximation method, integral relation

ABSTRACT: The Chaplygin approximation method, based on the theorem of integral inequality, is proposed for solution of the equation  $u_{xy} = f(x,y,u)$  ( $\frac{\partial f}{\partial y} > 0$ ) with conditions  $u(x,y)|_{y=y_0} = 0$ ,  $u(x,y)|_L = 0$  on the characteristic  $y_0$  and curve  $L$ .

[Translation of abstract] N. Azbelev, Z. Tsalyuk

SUB CODE: 12

Card 1/1

UDC: 517.919

ZERAGIYA, P.K.

Academician S.A. Chaplygin's method for solving basic boundary problems for nonlinear differential equations of the parabolic type. Soob.AN Gruz.SSR 17 no.2:103-109 '56. (MLBA 9:8)

1. Tbilisskiy gosudarstvennyy universitet imeni Stalina. Predstavleno deystvitel'nyy chlenom Akademii V.D. Kupradze.  
(Differential equations)

ZHRAGIYA, P.K.

Boundary value problems for certain nonlinear parabolic equations,  
Trudy Mat. inst. AN Gruz. SSR 24:195-221 '57. (MIRA 11:3)  
(Differential equations, Partial)

ZERAGIYA, P. K. Doc Phys-Math Sci -- (diss) <sup>"uncertain"</sup> ~~Some~~ Problems of  
the Theory of Parabolic-Type Equations". Tbilisi, 1957. 7/ pp 21 cm.  
(Tbilisi State <sup>Univ</sup> ~~Inst~~ in I. V. Stalin), 200 copies (KL, 17-57, 94)

ZERAGIYA, P.K.

Using S.A.Chaplygin's method to find the approximate solution of  
a nonlinear parabolic equation. Soob.AN Gruz.SSR 13 no.6:647-654  
Je '57. (MIRA 10:10)

1. Tbilisskiy gosudarstvennyy universitet im. I.V.Stalina.  
Predstavleno akademikom V.D.Kupradze.  
(Differential equations, Partial)



62  
Dissertation for degree of  
Candidate Mathematical Sciences

Def: at U.  
Tbilisi State U.

ЧЕРАБИЯ, Е.К.

VII. **ЭКОЛОГО-ЭКОНОМИЧЕСКАЯ ЭВЕНЮАЦИЯ**  
VIII. **ИНЖИКО-МАТЕМАТИЧЕСКИЕ НАУКИ**

### 1. DOCUMENT. PLATE MATRICES

1991-1992 1993-1994 1995-1996 1997-1998 1999-2000 2001-2002 2003-2004 2005-2006 2007-2008 2009-2010 2011-2012 2013-2014 2015-2016 2017-2018 2019-2020 2021-2022 2023-2024 2025-2026 2027-2028 2029-2030 2031-2032 2033-2034 2035-2036 2037-2038 2039-2040 2041-2042 2043-2044 2045-2046 2047-2048 2049-2050 2051-2052 2053-2054 2055-2056 2057-2058 2059-2060 2061-2062 2063-2064 2065-2066 2067-2068 2069-2070 2071-2072 2073-2074 2075-2076 2077-2078 2079-2080 2081-2082 2083-2084 2085-2086 2087-2088 2089-2090 2091-2092 2093-2094 2095-2096 2097-2098 2099-2100 2101-2102 2103-2104 2105-2106 2107-2108 2109-2110 2111-2112 2113-2114 2115-2116 2117-2118 2119-2120 2121-2122 2123-2124 2125-2126 2127-2128 2129-2130 2131-2132 2133-2134 2135-2136 2137-2138 2139-2140 2141-2142 2143-2144 2145-2146 2147-2148 2149-2150 2151-2152 2153-2154 2155-2156 2157-2158 2159-2160 2161-2162 2163-2164 2165-2166 2167-2168 2169-2170 2171-2172 2173-2174 2175-2176 2177-2178 2179-2180 2181-2182 2183-2184 2185-2186 2187-2188 2189-2190 2191-2192 2193-2194 2195-2196 2197-2198 2199-2200 2201-2202 2203-2204 2205-2206 2207-2208 2209-2210 2211-2212 2213-2214 2215-2216 2217-2218 2219-2220 2221-2222 2223-2224 2225-2226 2227-2228 2229-2230 2231-2232 2233-2234 2235-2236 2237-2238 2239-2240 2241-2242 2243-2244 2245-2246 2247-2248 2249-2250 2251-2252 2253-2254 2255-2256 2257-2258 2259-2260 2261-2262 2263-2264 2265-2266 2267-2268 2269-2270 2271-2272 2273-2274 2275-2276 2277-2278 2279-2280 2281-2282 2283-2284 2285-2286 2287-2288 2289-2290 2291-2292 2293-2294 2295-2296 2297-2298 2299-2300 2301-2302 2303-2304 2305-2306 2307-2308 2309-2310 2311-2312 2313-2314 2315-2316 2317-2318 2319-2320 2321-2322 2323-2324 2325-2326 2327-2328 2329-2330 2331-2332 2333-2334 2335-2336 2337-2338 2339-2340 2341-2342 2343-2344 2345-2346 2347-2348 2349-2350 2351-2352 2353-2354 2355-2356 2357-2358 2359-2360 2361-2362 2363-2364 2365-2366 2367-2368 2369-2370 2371-2372 2373-2374 2375-2376 2377-2378 2379-2380 2381-2382 2383-2384 2385-2386 2387-2388 2389-2390 2391-2392 2393-2394 2395-2396 2397-2398 2399-2400 2401-2402 2403-2404 2405-2406 2407-2408 2409-2410 2411-2412 2413-2414 2415-2416 2417-2418 2419-2420 2421-2422 2423-2424 2425-2426 2427-2428 2429-2430 2431-2432 2433-2434 2435-2436 2437-2438 2439-2440 2441-2442 2443-2444 2445-2446 2447-2448 2449-2450 2451-2452 2453-2454 2455-2456 2457-2458 2459-2460 2461-2462 2463-2464 2465-2466 2467-2468 2469-2470 2471-2472 2473-2474 2475-2476 2477-2478 2479-2480 2481-2482 2483-2484 2485-2486 2487-2488 2489-2490 2491-2492 2493-2494 2495-2496 2497-2498 2499-2500 2501-2502 2503-2504 2505-2506 2507-2508 2509-2510 2511-2512 2513-2514 2515-2516 2517-2518 2519-2520 2521-2522 2523-2524 2525-2526 2527-2528 2529-2530 2531-2532 2533-2534 2535-2536 2537-2538 2539-2540 2541-2542 2543-2544 2545-2546 2547-2548 2549-2550 2551-2552 2553-2554 2555-2556 2557-2558 2559-2560 2561-2562 2563-2564 2565-2566 2567-2568 2569-2570 2571-2572 2573-2574 2575-2576 2577-2578 2579-2580 2581-2582 2583-2584 2585-2586 2587-2588 2589-2590 2591-2592 2593-2594 2595-2596 2597-2598 2599-2600 2601-2602 2603-2604 2605-2606 2607-2608 2609-2610 2611-2612 2613-2614 2615-2616 2617-2618 2619-2620 2621-2622 2623-2624 2625-2626 2627-2628 2629-2630 2631-2632 2633-2634 2635-2636 2637-2638 2639-2640 2641-2642 2643-2644 2645-2646 2647-2648 2649-2650 2651-2652 2653-2654 2655-2656 2657-2658 2659-2660 2661-2662 2663-2664 2665-2666 2667-2668 2669-2670 2671-2672 2673-2674 2675-2676 2677-2678 2679-2680 2681-2682 2683-2684 2685-2686 2687-2688 2689-2690 2691-2692 2693-2694 2695-2696 2697-2698 2699-2700 2701-2702 2703-2704 2705-2706 2707-2708 2709-2710 2711-2712 2713-2714 2715-2716 2717-2718 2719-2720 2721-2722 2723-2724 2725-2726 2727-2728 2729-2730 2731-2732 2733-2734 2735-2736 2737-2738 2739-2740 2741-2742 2743-2744 2745-2746 2747-2748 2749-2750 2751-2752 2753-2754 2755-2756 2757-2758 2759-2760 2761-2762 2763-2764 2765-2766 2767-2768 2769-2770 2771-2772 2773-2774 2775-2776 2777-2778 2779-2780 2781-2782 2783-2784 2785-2786 2787-2788 2789-2790 2791-2792 2793-2794 2795-2796 2797-2798 2799-2800 2801-2802 2803-2804 2805-2806 2807-2808 2

691. ԶՅՈՂՆԵ ՇՐՋԱԿ Դ. ՏԺ, 1955; Դ. 60, 1956; Դթ. ներս. մաս-  
ք. երկնային տարածության բացօթյա հե-  
տադիմ, 1934, 172 էջ (համբողջությամբ)  
Հայ. 1957, 18 է.

343. 1957, 18.5.

1994, Милланда Шалава Ефре-  
мович, Методы сельского хозяйства  
дифференциальное и интегральное  
уравнений (Изд. АН СССР, 1934 —  
1935 гг.)

34. 1935, 11.11.

[illegible]

304. 1939, 10.11.

[illegible]

30 Aug. 1946, 36.

TO ORDER OF NOTARY PUBLIC

### Doctor Mathematics Solences

1950

SERAFIMOV, K.; ZERAJIC, D.; PEEV, A.

A case of secondary echinococcosis of the spleen. Acta chir. Iugosl.  
9 no.1:74-79 '61.

1. Hirurska klinika Medicinskog fakulteta u Skopju (Upravnik prof.  
dr B. Dragojevic).  
(ECHINOCOCCOSIS case reports) (SPLEEN dis)

SERAFIMOV, K.; ZERAJIC, D.

Mucocoele of the appendix (apropos of one of our cases) Acta chir.  
iugosl. 8(9) no.2:142-147 '61.

1. Hirurska klinika Medicinskog fakulteta u Skopju (Upravnik prof.  
dr B. Pragojevic)

(APPENDIX diseases)

ZERAVICA, M., ing.

The international study group on lead and zinc. Rudar glasnik no.3:  
83-84 '62.

1. Savezni zavod za privredno planiranje, Beograd.

DIZDAR, Vojno, inz.; BULJAN, Vladimir, inz.; KNEZEVIC, Ljubica;  
MIRKOV, Kornelije, inz.; NIKOLIC, Branka; PANJKOVIC, Vasilije;  
RADOVANOVIC, Predrag, inz.; RAJNER, Ernest, inz.;  
STOKRPA, Dragic; SURIC, Stjepan, inz.; ZERAVICA, Marko, inz.

Development of the chemical industry in Yugoslavia.  
Alm hem ind 51-196 '62.

CA

28

A report of the 10th International Commission for Uniform Methods of Sugar Analyses in Brussels in 1940.  
F. W. Zerban. *Listy Cukrovar.* 66, 49-51 (1949).  
Frank Muresh

BC

A-3

Comparative microanalytic tests of anabasine and related compounds: its purification and some physical constants. M. S. ZERNER, M. T. OUNTER, and M. L. WELLS (Microchem., 1937, 21, 171-179).--Reactions of non-homogeneous distillation samples of anabasine with alkaloid reagents are described. n, d, and [α]<sub>D</sub> for the impure material are recorded. J. S. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SECTION 7	SECTION 8	SECTION 9	SECTION 10	SECTION 11	SECTION 12	SECTION 13	SECTION 14	SECTION 15	SECTION 16	SECTION 17	SECTION 18	SECTION 19	SECTION 20	SECTION 21	SECTION 22	SECTION 23	SECTION 24	SECTION 25	SECTION 26	SECTION 27	SECTION 28	SECTION 29	SECTION 30	SECTION 31	SECTION 32	SECTION 33	SECTION 34	SECTION 35	SECTION 36	SECTION 37	SECTION 38	SECTION 39	SECTION 40	SECTION 41	SECTION 42	SECTION 43	SECTION 44	SECTION 45	SECTION 46	SECTION 47	SECTION 48	SECTION 49	SECTION 50	SECTION 51	SECTION 52	SECTION 53	SECTION 54	SECTION 55	SECTION 56	SECTION 57	SECTION 58	SECTION 59	SECTION 60	SECTION 61	SECTION 62	SECTION 63	SECTION 64	SECTION 65	SECTION 66	SECTION 67	SECTION 68	SECTION 69	SECTION 70	SECTION 71	SECTION 72	SECTION 73	SECTION 74	SECTION 75	SECTION 76	SECTION 77	SECTION 78	SECTION 79	SECTION 80	SECTION 81	SECTION 82	SECTION 83	SECTION 84	SECTION 85	SECTION 86	SECTION 87	SECTION 88	SECTION 89	SECTION 90	SECTION 91	SECTION 92	SECTION 93	SECTION 94	SECTION 95	SECTION 96	SECTION 97	SECTION 98	SECTION 99	SECTION 100
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	-------------



MICHEJDA, Jan, doc. dr; KASPRZAK, Leokadia, M.Sc.; OBUCHOWICZ,  
Ludwik, dr; ZERBE, Teresa, M.Sc.

Respiratory metabolism in the snail, *Helix pomatia*.  
Pt. 3. Sciences biol Biul Poznan no.4:115-134 '64.

1. Department of Animal Physiology, A. Mickiewicz University,  
Poznan.

OBUCHOWICZ, Ludwik, dr.; ZERBE, Teresa, mgr

Cytochrome C oxidase activity in hepatopancreas of the snail  
*Viviparus viviparus* L. Sciences biol Biol Poznan no.3:39-46  
1962.

1. Department of Animal Physiology, Adam Mickiewicz University,  
Poznan.

ZERBINO, D.D. (Chernovitsy, Universitetskaya ul., 12,kv.9)

Senile changes in the efferent lymphatic vessels. Arkh. anat. gist.  
embr. 39 no. 10:37-42 0 '60. (MIRA 14:2)

1. Kafedra patologicheskoy anatomii (zav. -- prof. N.M. Shinkerman)  
Chernovitskogo meditsinskogo instituta.  
(LYMPHATICS) (AGING)

ZERBINO, D.D. (Chernovtsy)

Changes in the lymphatic system in chronic blood circulation  
insufficiency. Arkh. pat. 27 no.9:11-16 '65.

(MIRA 18:12)

1. Kafedra patologicheskoy anatomii (nav.- prof. N.M. Shinkerman)  
Chernovitskogo meditsinskogo instituta. Submitted December 25, 1963.

ZERBINO, D.D.

Rare case of hernia of the diaphragm. Vrach.delo no.6:635-637  
Jo '58 (MIRA 11:?)

1. Kafedra topograficheskoy anatomii i operativnoy khirurgii  
(zav. - dots. N.P. Novikov) Chernovitskogo meditsinskogo instituta.  
(DIAPHRAGM--HERNIA)

USSR / Human and Animal Morphology, Normal and Pathological.  
Lymphatic System.

3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35987

Author : Serbino, D. D.

Inst : Not given

Title : Concerning the Perivascular Lymphatic Vessels.

Orig Pub : Arkhiv. anatomii, histol. i embriologii, 1957, 34, No. 5  
35-39.

Abstract : The perivascular lymphatic vessels (PLV) of the liver (20),  
lung (11), diaphragm (14), and testicles (35) in the fetus,  
newborn, children and adults were studied on microscopic sec-  
tions after the injection of the Jerome and Spehand' mass or  
on histological specimens. A difference of forms of PLV in  
various organs were discovered. Around the large branches  
of the portal vein and the portal artery, PLV are arranged

Card 1/2

~~ZERBINO, D.D.~~

ZERBINO, D.D. (Chernovitsy, ul. Fed'kovicha, d.19, kv.1)

Perivascular lymph vessels. Arkh.anat.gist. i embr. 34 no.5:35-39  
S-0 '57. (MIRA 11:1)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. -  
doks. N.P.Novikov) Chernovitskogo meditsinskogo instituta.

(LYMPHATIC VESSELS, anat. and histol.  
perivasc.)

(BLOOD VESSELS, anat. and histol.  
perivasc. lymphatic vessels)

ZERBINO, D.D.

Method for studying the valves of the lymphatic vessels [with summary in English]. Biul. eksp. biol. i med. 45 no. 2: 125-126 F '58

(MIRA 11:5)

1. Iz kafedry topograficheskoy anatomii (zav. - dots. N.P. Novikov) Chernovitskogo meditsinskogo instituta (dir. - dots. M.M. Kovalev)

(LYMPHATIC VESSELS, anatomy and histology,  
valves, methods of investigation (Rus))



ZERBINO, D. D.

"The intraorganic lymphatic systems of the ovary, adnexa, membranes, and seminal vesicle." Kiev Order of Labor Medical Inst imeni Academician A. A. Gogomolets. Kiev, 1956. (Dissertations for the Degree of Candidate in Medical Science)

So: Knizhaya letopis', No. 16, 1956

MALYKIN, R.J.; KSANFOPULO, Z.A.; BRUJEVIC, T.S.; ZERCALOVA, G.Z.

Role of the nervous system in the pathogenesis of eczema and neuro-  
dermatitis. Cesk.derm. 26 no.6:213-214 June 51. (CJML 21:1 )

PANKRATOV, A.V.; ZERCHENINOV, A.N.; TALAKIN, O.G.; SOKOLOV, O.M.;  
KNYAZEVA, N.A.

Standard enthalpy of the formation of an active isomer of  
difluorodiazine. Zhur. fiz. khim. 37 no.6:1399-1401 Ja '63.  
(Diazine) (Heat of formation) (MIRA 16:7)

ZERCHANINOV, I.K.

Hydrogeology in the Volga Valley portion of Saratov and Stalingrad  
Provinces. Geol. nefti i gaza no.1:30-36 Ja '60. (MIRA 13:10)

1. Vsesoyuznyy nefte-gazovyy nauchno-issledovatel'skiy institut.  
(Saratov Province--Water, Underground)  
(Stalingrad Province--Water, Underground)